

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-49 (canceled).

50. (currently amended) Transmission comprising a driveshaft (3), an output shaft (4) and a housing (1) on which a centering flange (5) ~~wherein, the centering flange (5) has at least one radially circumferential groove (15)~~ and an attachment flange (6) are provided, the housing (1) is provided with ~~at least one~~ a plurality of strain ~~sensor~~ sensors (9) arranged near to the attachment flange (6), wherein the ~~at least one strain sensor sensors (9)~~ is provided on are distributed radially around the housing (1), and ~~the at least one strain sensor (9)~~ is arranged near to attachment screw holes (8) of the attachment flange (6).

51. (currently amended) Transmission comprising a driveshaft (3), an output shaft (4) and a housing (1) on which a centering flange (5) and an attachment flange (6) are provided, the housing (1) is provided with at least one electronic display system (11), wherein the electronic display system (11) is connected to ~~at least one sensor~~ a plurality of sensors (13) distributed radially around the housing and selected from the group consisting of strain sensors, force sensors, temperature sensors and, incremental sensor, assigned to a transmission,

permissible values and limiting values such as force, temperature, service life, number of revolutions are visually displayed and read off on the electronic display system (11) wherein the values which are generated in the electronic display system (11), are transmitted in a wireless fashion to an external evaluation device (10).

52. (currently amended) Transmission according to claim 50, wherein the centering flange (5) has at least one radially circumferential groove (15) in which at least one damping element (14) is located.

53. (currently amended) Transmission according to claim 50, wherein the ~~at least one~~ plurality of strain ~~sense~~ sensors (9) ~~is~~ are provided near to cylindrical housing parts, near to the attachment flange (6).

54. (currently amended) Transmission according to claim 50, wherein the ~~at least one~~ plurality of strain sensor (9) is arranged in a cylindrical region of the attachment flange (6).

55. (currently amended) Transmission according to claim 50, wherein ~~a~~ the plurality of strain sensors (9) are distributed radially around the attachment flange (6) in the region of the housing (1), opposite the centering flange (5).

56. (currently amended) Transmission according to claim 50, wherein the ~~at least one~~ plurality of strain sensor (9) ~~is~~ are arranged ~~approximately centrally between two adjacent corner~~

~~regions (7) of two adjacent arrangements of attachment screw holes (8) underneath the centering flange (5) near to said housing (1).~~

57. (previously presented) Transmission according to claim 52, wherein the attachment flange (6) is spaced apart coaxially from an outer casing (20) of the housing (1) by a radial indent (18).

58. (previously presented) Transmission according to claim 57, wherein the attachment flange (6) is provided with a radially circumferential constriction (19) proximate to the indent (18) for accommodating the at least one strain sensor (9).

59. (previously presented) Transmission according to claim 50, wherein at least one indent (18) which forms at least one constriction (19) is provided between an outer casing (20) of the housing (1) and the attachment flange (6).

60. (previously presented) Transmission according to claim 50, wherein the at least one strain sensor (9) comprises a strain gauge connected to an evaluation unit (10) and an electronic display system (11).

61. (previously presented) Transmission according to claim 60, wherein radial forces are determined with the at least one strain sensor (9) and when a predefined limiting value is exceeded, a signal is generated and displayed in the electronic display system (11).

62. (previously presented) Transmission according to claim 61, wherein the signals which are generated by the at least one strain sensor (9) are recorded over time, stored in the evaluation unit (10) and, saved in the electronic display system (11).

63. (previously presented) Transmission according to claim 62, wherein the at least one electronic display system (11) is assigned to a base flange (2) of the housing (1).

64. (previously presented) Transmission according to claim 61, wherein transmission-specific data including force, temperature, transit time, and number of revolutions is displayed by the display unit (12).

65. (previously presented) Transmission according to claim 57, wherein the damping element (14) is inserted into the radial indent (18) and comprises an elastically deformable rubber element.

66. (previously presented) Transmission according to claim 65, wherein the damping element (14) comprises an O ring (17).

67. (previously presented) Transmission according to claim 66, wherein a plurality of circumferential grooves (16), which are spaced apart from one another and parallel to each other, are provided on the centering flange (5) and each is provided with a damping element (14).

68. (previously presented) Transmission according to claim 65, wherein the damping element (14) projects outward beyond an outer casing of the centering flange (5).